U.S. Pat. App. No. 10/553,713 Response to 091014 Restriction Requirement 12965/3 (P49324.US)

This listing of claims will replace all prior versions and listings of claims in the application.

- 1. (Original) A solvent extraction process that includes operating the process using an organic solvent that contains a non-ionic extractant and a conductivity enhancer that increases the electrical conductivity of the solvent to reduce build-up of static electricity in the process and thereby reduce the electrostatic discharge hazard of the solvent to an adequate fire safety level.
- 2. (Currently Amended) The process defined in claim 1 that includes adding conductivity enhancer continuously or periodically during the course of the process and maintaining the electrical conductivity of the solvent above a minimum level.
- 3. (Currently Amended) The process defined in claim 2 <u>that</u> includes controlling the amount of the conductivity enhancer added to the process by monitoring the electrical conductivity of the solvent in the process and adjusting the amount of the conductivity enhancer added to the process to maintain the electrical conductivity above a minimum level.
- 4. (Currently Amended) The process defined in claim 1 for extracting a metal, such as copper, that includes maintaining the electrical conductivity of the solvent at or above 100 pS/m for extracting a metal.
- 5. (Currently Amended) The process defined in claim 4 that includes maintaining the electrical conductivity of the solvent at or above 150 pS/m.
- 6. (Currently Amended) The process defined in claim 5 4 that includes maintaining the electrical conductivity of the solvent at or above 250 pS/m.
- 7. (Currently Amended) The process defined in claim 6 4 that includes maintaining the electrical conductivity of the solvent at 350 pS/m.

- 8. (Currently Amended) The process defined in claim 7 4 that includes maintaining the electrical conductivity of the solvent at 500 pS/m.
- 9. (Previously Presented) The process defined in claim 1 wherein the conductivity enhancer is a reagent that contains 10-20% toluene, 60-70% kerosene, and 2-7% solvent naphtha, and 2-8% DBSA (dodecylbenzenesulphonic acid).
- 10. (Currently Amended) The process defined in claim 2 1, wherein the conductivity enhancer is a reagent that contains 10-20% toluene, 2-8% DBSA, 50-70% kerosene, and 2-7% TS polymer containing S.
- 11. (Currently Amended) The process defined in claim 2 1, wherein the conductivity enhancer is a reagent that contains 40-50% toluene, 0-5% propan-2-ol, 5-15% DINNSAA (dinonylnaphthasulphonic acid), 15-30% solvent naptha naphtha, 1-10% TS polymer containing N, and 10-20% polymer containing S.
- 12. (Currently Amended) The process defined in claim 2 1, wherein the conductivity enhancer is a reagent that contains 50-65% toluene, 5-10% heavy aromatic naphtha, 1-10% DBSA, less than 10% benzene, 11-30% TS polymers, and less than 5% propan-2-ol.
- 13. (Currently Amended) The process defined in claim 2 1, wherein the conductivity enhancer is a reagent that contains 30-60% kerosene, 10-30% solvent naphta naphtha, 10-30% DINNSA, 1-5% naphthalene, 1-5% propan-2-ol, and 1-5% TS polymer containing N.
- 14. (Previously Presented) The process defined in claim 1 wherein the organic solvent is a narrow-cut kerosene and the extractant is an oxime which is dissolved in the solvent and the amount of oxime is between 5-25% by volume of the total volume of oxime and narrow cut kerosene.

- 15. (Original) The process defined in claim 14 wherein the amount of oxime in the narrow cut kerosene is between 5-15% by volume of the total volume of oxime and narrow cut kerosene.
- 16. (Currently Amended) An organic solvent for extracting a metal, such as copper, from an aqueous medium in a solvent extraction process, which solvent includes a combustible organic solvent, such as a narrow-cut kerosene, a non-ionic extractant, and a conductivity enhancer, that increases the electrical conductivity of the solvent to reduce build-up of static electricity in the process and thereby reduce the electrostatic discharge hazard of the solvent to an adequate fire safety level.
- 17. (Currently Amended) An The organic solvent of claim 16 wherein for extracting a metal, such as copper, from an aqueous medium in a solvent extraction process, which solvent includes a combustible organic solvent, such as a narrow-cut kerosene, a non-ionic extractant, and a conductivity enhancer, and the conductivity enhancer is a reagent that contains 10-20% toluene, 2-8% DBSA, 50-70% kerosene, and 2-7% TS polymer containing S.
- 18. (Currently Amended) An The organic solvent of claim 16 wherein for extracting a metal, such as copper, from an aqueous medium in a solvent extraction process, which solvent includes a combustible organic solvent, such as a narrow cut kerosene, a non-ionic extractant, and a conductivity enhancer, and the conductivity enhancer is a reagent that contains 40-50% toluene, 0-5% propan-2-ol, 5-15% DINNSAA (dinonylnaphthasulphonic acid), 15-30% solvent naptha naphtha, 1-10% TS polymer containing N, and 10-20% polymer containing S.
- 19. (Currently Amended) An <u>The</u> organic solvent <u>of claim 16 wherein</u> for extracting a metal, such as copper, from an aqueous medium in a solvent extraction process, which solvent includes a combustible organic solvent, such as a narrow cut kerosene, a non-ionic extractant, and a conductivity enhancer, and the conductivity

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enhancer is a reagent that contains 50-65% toluene, 5-10% heavy aromatic naphtha, 1-10% DBSA, less than 10% benzene, 11-30% TS polymers, and less than 5% propan-2-ol.

- 20. (Currently Amended) An The organic solvent of claim 16 wherein for extracting a metal, such as copper, from an aqueous medium in a solvent extraction process, which solvent includes a combustible organic solvent, such as a narrow-cut kerosene, a non-ionic extractant, and a conductivity enhancer, and the conductivity enhancer is a reagent that 30-60% kerosene, 10-30% solvent naphta naphtha, 10-30% DINNSA, 1-5% naphthalene, 1-5% propan-2-ol, and 1-5% TS polymer containing N.
- 21. (New) The organic solvent of claim 16 wherein the conductivity enhancer is a reagent that contains 10-20% toluene, 60-70% kerosene, and 2-7% solvent naphtha, and 2-8% DBSA (dodecylbenzenesulphonic acid).